The Afghanistan Engineering Support Program assembled this deliverable. It is an approved, official USAID document. Budget information contained herein is for illustrative purposes. All policy, personal, financial, and procurement sensitive information has been removed. Additional information on the report can be obtained from Firouz Rooyani, Tetra Tech Sr. VP International Operations, (703) 387-2151.



Site Visit Report	Project: Public Latrines Construction
Location:	Coordinates:
Faizabad Province	Latitude: N37°7'9.588" Longitude: E70°34'31.099"
Inspection Date:	Weather:
16/11/2013	Partly Cloudy, Temp 5°C, No Precipitation
Inspectors:	Status:
	Complete

PRESENTED TO

United States Agency for International Development (USAID)
Office of Economic Growth and Infrastructure (OEGI)

RAMP-UP North

Great Massoud Road Kabul, Afghanistan

PRESENTED BY

Tetra Tech, Inc.
Afghanistan Engineering Support Program
Contract No. EDH-I-00-08-00027-00
Task Order No. 1

Work Order WO-LT-0009 AMD #5

Shash Darak Kabul, Afghanistan



Title: Deputy Chief of Party

EXECUTIVE SUMMARY

The goal of this project is to improve sanitation and environment of the market area in Faizabad City. The project includes construction of an eight-cabin latrines, with 4 cabins for men and 4 cabins for women, including a 60 m³ septic tank, 6000 liters capacity water tank with a six (6) meter tall steel water tower and a generator cabin with 5 KVA capacity generator. The project is funded by USAID/RUMP UP-North.

On November 6, 2013, two engineers from Tetra Tech (Tt), Afghanistan Engineering Support Program (AESP) traveled to Faizabad Province to inspect and evaluate the visible completed works.

Tt has determined that the construction work for the Faizabad Municipality Latrines Construction Project is complete and currently is in service condition. The overall work quality is acceptable and in compliance with the provided project documentation and drawings.

DISCLAIMER

The author's views expressed in this publication do not necessarily reflect the views of the United States Agency for International Development or the United States Government.



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APPENDICES

APPENDIX A - DRAWINGS

APPENDIX B - PROJECT PROPOSAL

This report was prepared for the United States Agency for International Development, Contract No. EDH-I-00-08-00027-00, Task Order 01, Afghanistan Engineering Support Program.

1.0 INTRODUCTION

Faizabad is the capital of Badakhshan Province located in northeastern Afghanistan. The Faizabad Municipality Latrine project is located in District2 of Faizabad old city. The project includes construction of 8-cabins latrine (4 cabins for male and 4 for female) with one hall for male and one for female, generator room with 5 KVA capacity generator, a water well with submersible water pump, a 60 cubic meter septic tank, installation of a 6000 liter overhead water tank in district2 and drilling 80 meter deep water well. This project is funded by USAID/RUMP UP-East.

2.0 SITE VISIT

On November6, 2013 two engineers from Tetra Tech (Tt), Afghanistan Engineering Support Program (AESP) traveled to Faizabad city to inspect and evaluate the visible completed works.

Based on the recently provided project documentation that includes drawings in Appendix A and project proposal in Appendix B, all the required activities have been completed by the contractor. Tt engineers were accompanied by the Development Alternative Inc (DAI) site civil engineer during the site inspection and evaluation. Findings of the site observations documented in this report, including photos provided in the figure section on pages 3 to12.

3.0 SITE VISIT DETAILS:

The following was observed during site visit of the project:

- 1. The construction of latrine building with all required accessories is complete. (See Figures 1,2,3,4,5,6,7,8,9,10 and 11)
- 2. Supply and installation of electrical fixtures and provision of 5KVA generator, a power source of the submersible water pump are complete. (See Figure 7)
- 3. Construction of generator room is complete. (See Figures 12,13,14 and 15)
- 4. Drilling of 80 meter deep water well with PVC casing and installation of 1.5 inch submersible water pump are complete.(See Figure 16)
- 5. Supply and installation of 6000 liters capacity overhead water tank with all support frames and reinforced concrete foundation ring is complete.(See Figure 17 and 18)
- Construction of 60 cubic meters capacity septic tank is complete. (See Figure 19)

Based on the above summary, Tt has determined that the construction work for the Faizabad Municipality Latrines Project is complete. The overall quality of the work is acceptable and is in compliance with the provided drawings.

FIGURES



Figure 1. View of the sign board



Figure 2. Front view of the 8 cabins latrine building



Figure 3. Back view of the latrine building



Figure 4. View of the main door for the female latrine



Figure 5. View of the main door for the male latrine



Figure 6. Interior view of a cabin latrine



Figure 7. View of the installed light fixture

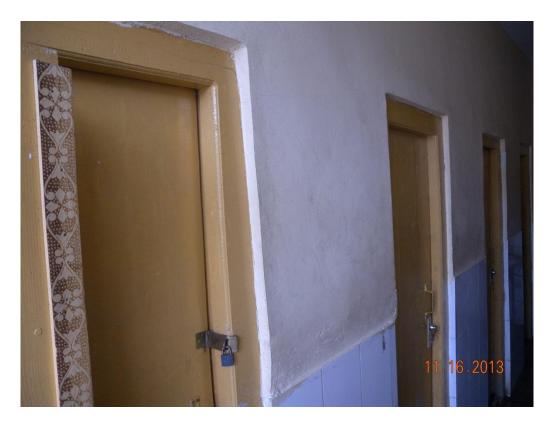


Figure 8. View of the installed doors for the male cabins latrine



Figure 9. Interior view of the main hall



Figure 10. View of the sinks in the female latrine main hall



Figure 11. View of the wooden cabinet, placed at the male latrine main hall



Figure 12. View of the constructed generator room



Figure 13. View of the generator room



Figure 14. View of the installed junction box and water pump switch



Figure 15. View of the 5 KVA generator placed in generator room



Figure 16. View of the water well



Figure 17. View of the overhead water tank



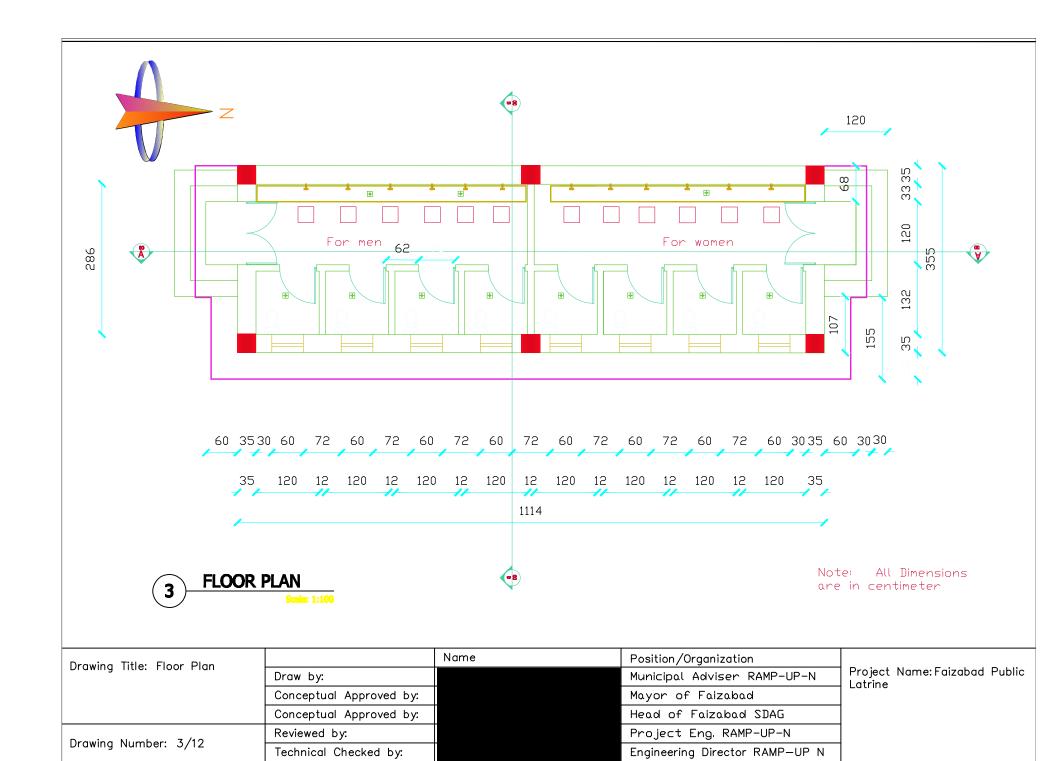
Figure 18. View of the overhead water tank



Figure 19. View of the underground septic tank

APPENDIX A - DRAWINGS

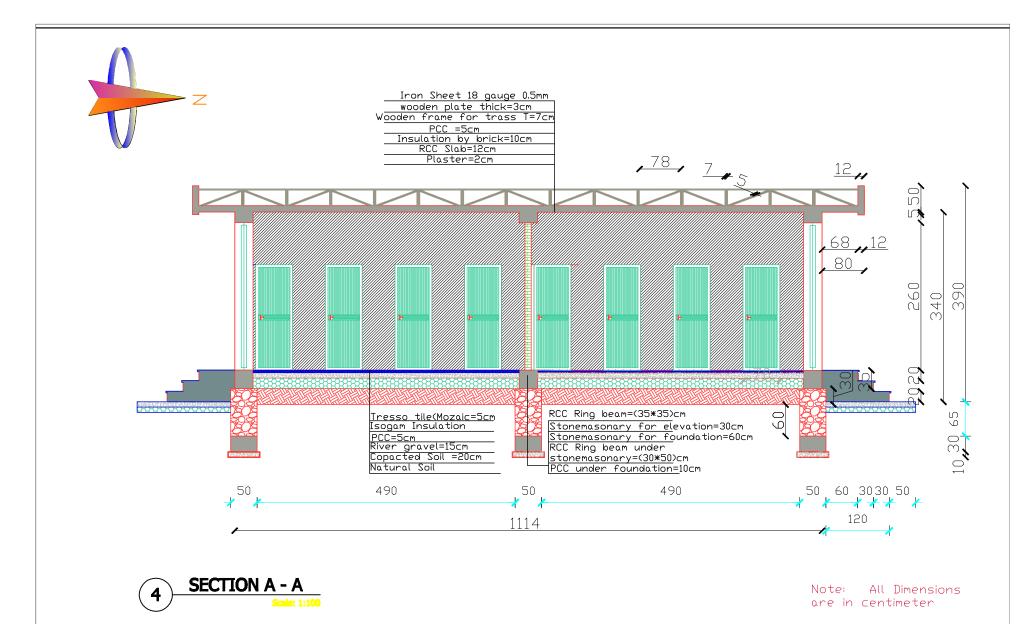
SITE PLAN OF FAIZABAD LARINE Finance De Bridge from new city to old city Governer Office **Provincial Council Economic Building**



Project Manager RAMP-UP N

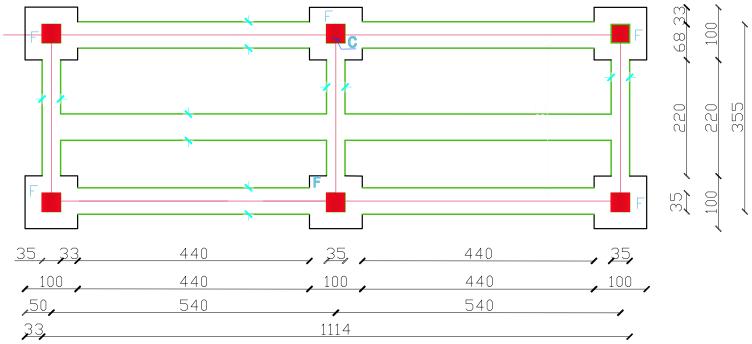
Date: June 2012

Approved by:



Drawing Title: Section A-A		Name	Position/Organization	
browning inde. Section A A	Draw by:		Municipal Adviser RAMP-UP-N	Project Name:Faizabad Public Latrine
	Conceptual Approved by:		Mayor of Faizabad	Editine
	Conceptual Approved by:		Head of Faizabad SDAG	
Drawing Number 4/12	Reviewed by:		Project Eng. RAMP-UP-N	
Drawing Number: 4/12	Technical Checked by:		Engineering Director RAMP-UP N	
	Approved by:		Project Manager RAMP-UP N	Date: June 2012

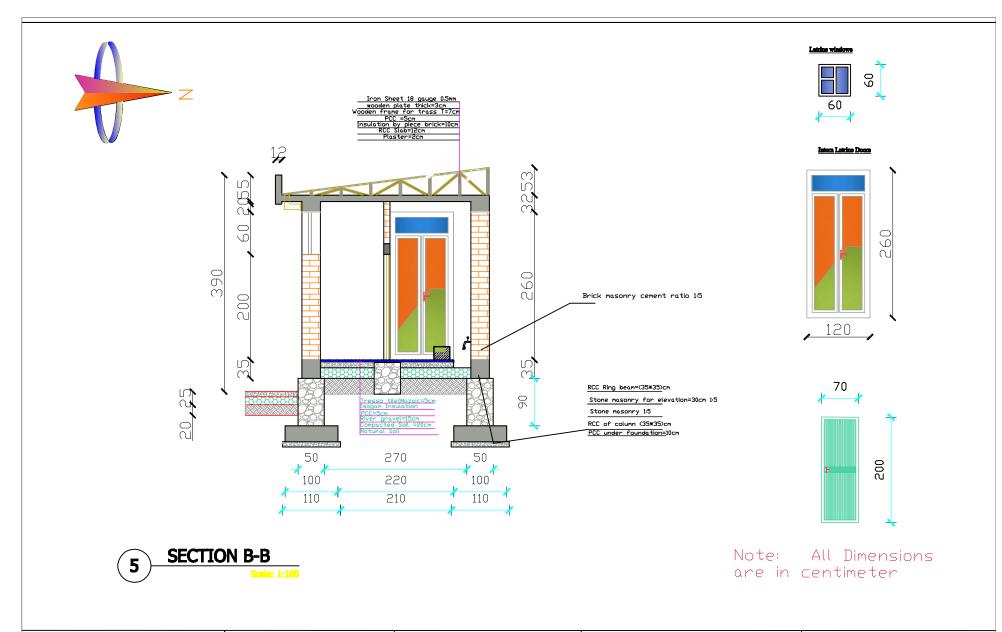




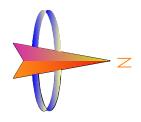
POUNDATION PLAN Scale: 1:100

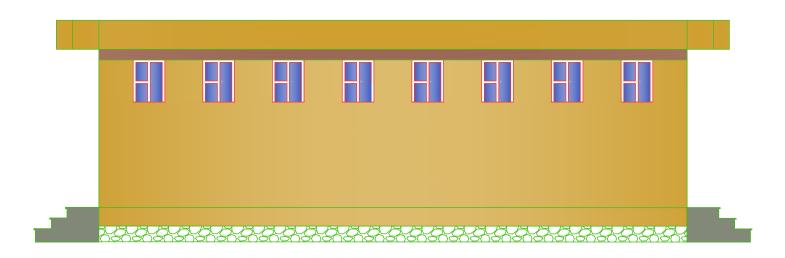
Note: All Dimensions are in centimeter

Drawing Title: foundation plan		Name	Position/Organization	
brawing mile. Touridation plan	Draw by:		Municipal Adviser RAMP-UP-N	Project Name:Faizabad Public Latrine
	Conceptual Approved by:		Mayor of Faizabad	Latine
	Conceptual Approved by:		Head of Faizabad SDAG	
Drawing Number 2/12	Reviewed by:		Project Eng. RAMP-UP-N	
Drawing Number: 2/12	Technical Checked by:		Engineering Director RAMP—UP N	
	Approved by:		Project Manager RAMP-UP N	Date: June 2012



Drawing Title: Section B-B		Name	Position/Organization	
brawing nate. Section b b	Draw by:		Municipal Adviser RAMP-UP-N	Project Name:Faizabad Public Latrine
	Conceptual Approved by:		Mayor of Faizabad	Edillie
	Conceptual Approved by:		Head of Faizabad SDAG	
Drawing Number 5 /12	Reviewed by:	i	Project Eng. RAMP-UP-N	
Drawing Number: 5/12	Technical Checked by:		Engineering Director RAMP-UP N	
	Approved by:		Project Manager RAMP-UP N	Date: June 2012

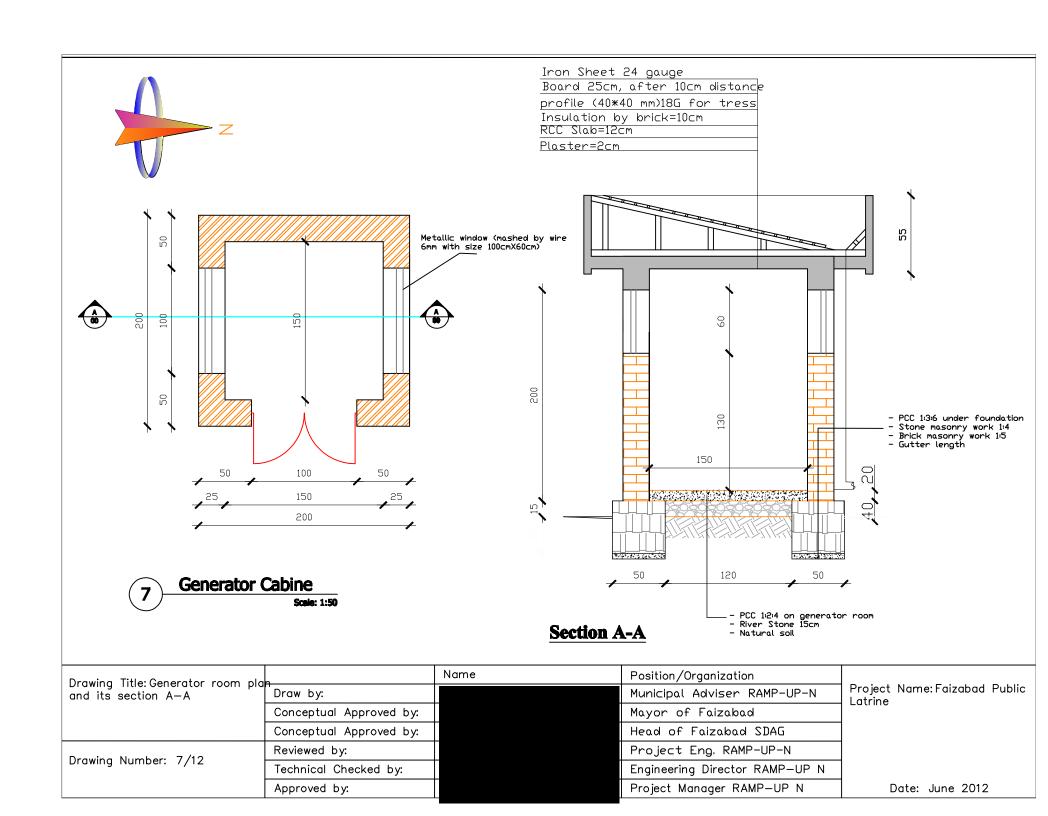




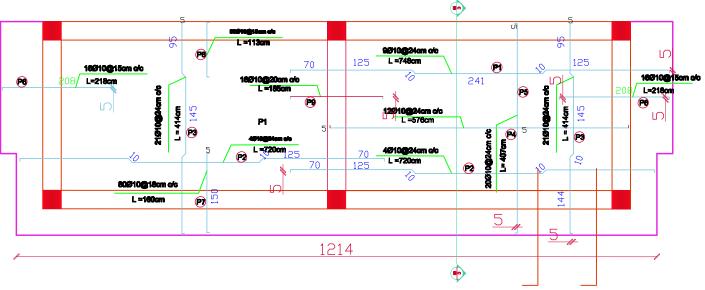


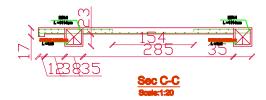
Note: All Dimensions are in centimeter

Drawing Title: Front Elevation		Name	Name Position/Organization	
brawing ritte. Front Elevation	Draw by:		Municipal Adviser RAMP-UP-N	Project Name:Faizabad Public Latrine
	Conceptual Approved by:		Mayor of Faizabad	Latine
	Conceptual Approved by:		Head of Faizabad SDAG	
Drawing Number 6/12	Reviewed by:		Project Eng. RAMP-UP-N	
Drawing Number: 6/12	Technical Checked by:		Engineering Director RAMP-UP N	
	Approved by:		Project Manager RAMP-UP N	Date: June 2012

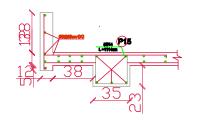












Note: All Dimensions are in centimeter

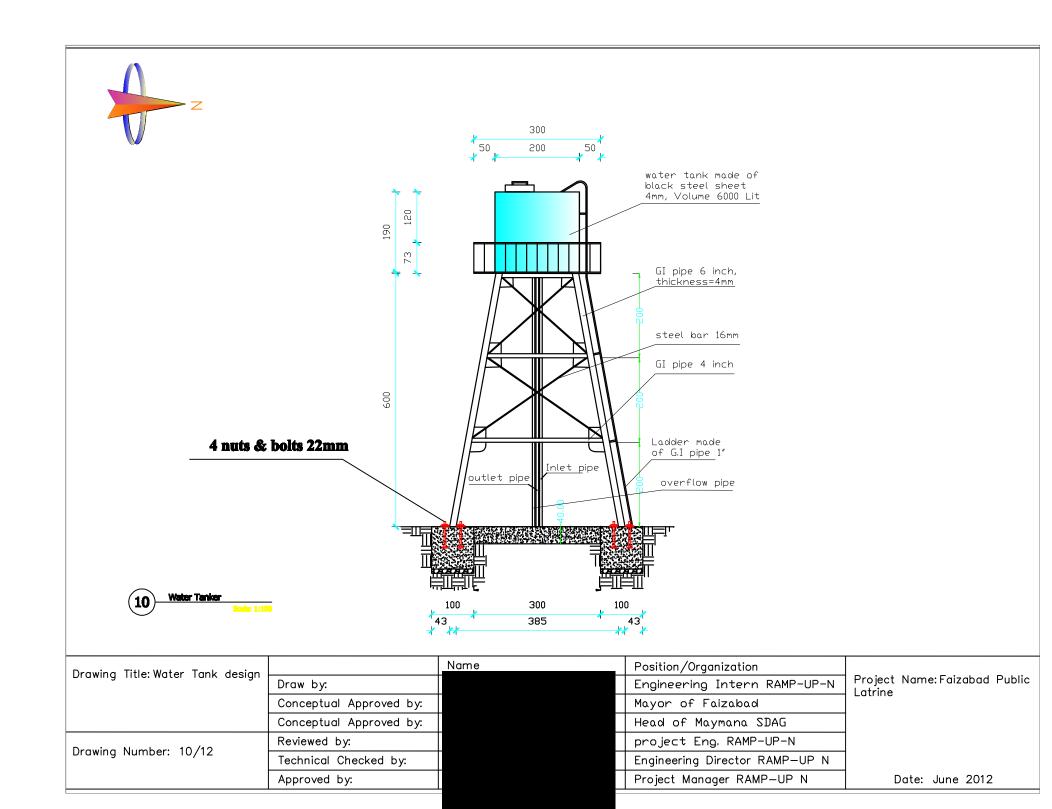
Drawing Title: Slab Reinforcement		Name	Position/Organization		
Plan	Draw by:		Municipal Adviser RAMP-UP-N	Project Name:Faizabad Public Latrine	
	Conceptual Approved by:		Mayor of Faizabad	Latime	
	Conceptual Approved by:		Head of Faizabad SDAG		
Drawing Number: 8/12	Reviewed by:		Project Eng. RAMP-UP-N		
Drawing Number: 8/12	Technical Checked by:		Engineering Director RAMP-UP N		
	Approved by:		Project Manager RAMP-UP N	Date: June 2012	

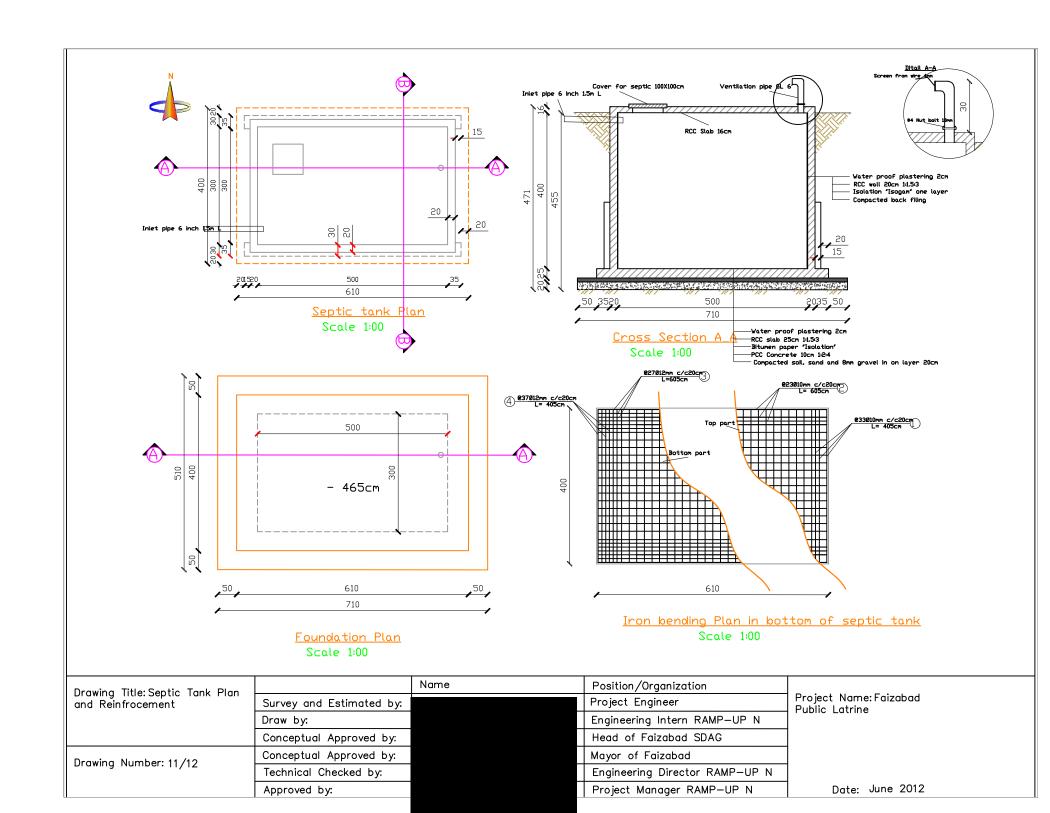
375 **(P)**4 9 - 125cm - 165cm 4Ø14mm l = 251 cm FOUNDATION AND COLUMN RENFORCEMENT PLAN

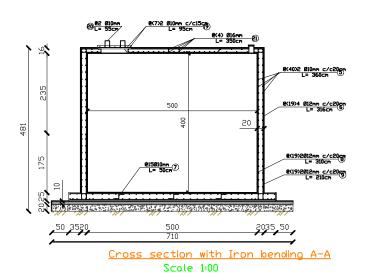
Reinforcement Table of Latrine

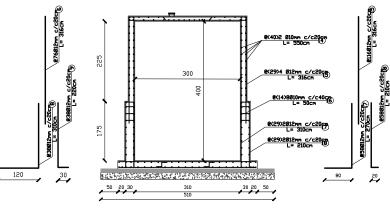
		Total re	enforcemen	t of Latrir	18		1682	
17	97	8	726	1.26	914.7	0.395	361.3	•
16	9	14	15	3.75	56.25	1.2	67.5	
15	9 6	14	10	11.14	111.4	1.2	133,68	
14	@ 4	16	24	3.75	90	1.58	105.84	
13	(P)3	14	84	1.05	88.2	1.2	105.84	
12	P 2	14	24	2.51	90	1.2	144.6	
11	(P) 1	12	24	3.75	90	0.888	79.9	
10	(90)	12	16	11,34	181.44	0.888	161.12	
9	(9)	10	16	1.85	29.6	0.616	18.23	
8	(9)	10	80	1.13	90.4	0.616	55.7	
7	@	10	80	1.60	128	0.616	78.8	
6	6	10	32	2.18	69.76	0.616	42.97	
5	P	10	40	4.07	162.8	0.616	100.3	L
4	P	10	24	5.76	138	0.616	85	L
3	P	10	42	4.14	173.88	0.616	107	
2	6	10	8	7.2	57.6	0.616	35.48	
1	(P)	10	18	7.48	134.64	0.616	82.9	
Num	Sign	D(mm)	Component	Length(m)	Total _ength(m)	Weight /m(kg)	Weight(kg)	Type

Drawing Title: Column and		Name	Position/Organization	
Foundation Reinforcement	Draw by:		Municipal Adviser RAMP-UP-N	Project Name:Faizabad Public Latrine
	Conceptual Approved by:		Mayor of Faizabad	Eddine
	Conceptual Approved by:		Head of Faizabad SDAG	
Drawing Number 0 /12	Reviewed by:		Project Eng. RAMP-UP-N	
Drawing Number: 9/12	Technical Checked by:		Engineering Director RAMP-UP N	
	Approved by:		Project Manager RAMP-UP N	Date: June 2012
	-			

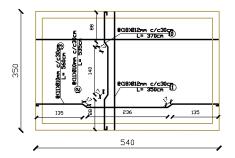








 $\begin{array}{c} \underline{\text{Cross section with Iron bending B-B}} \\ \underline{\text{Scale 1:00}} \end{array}$





Top slab on septic tank Scale 1:00

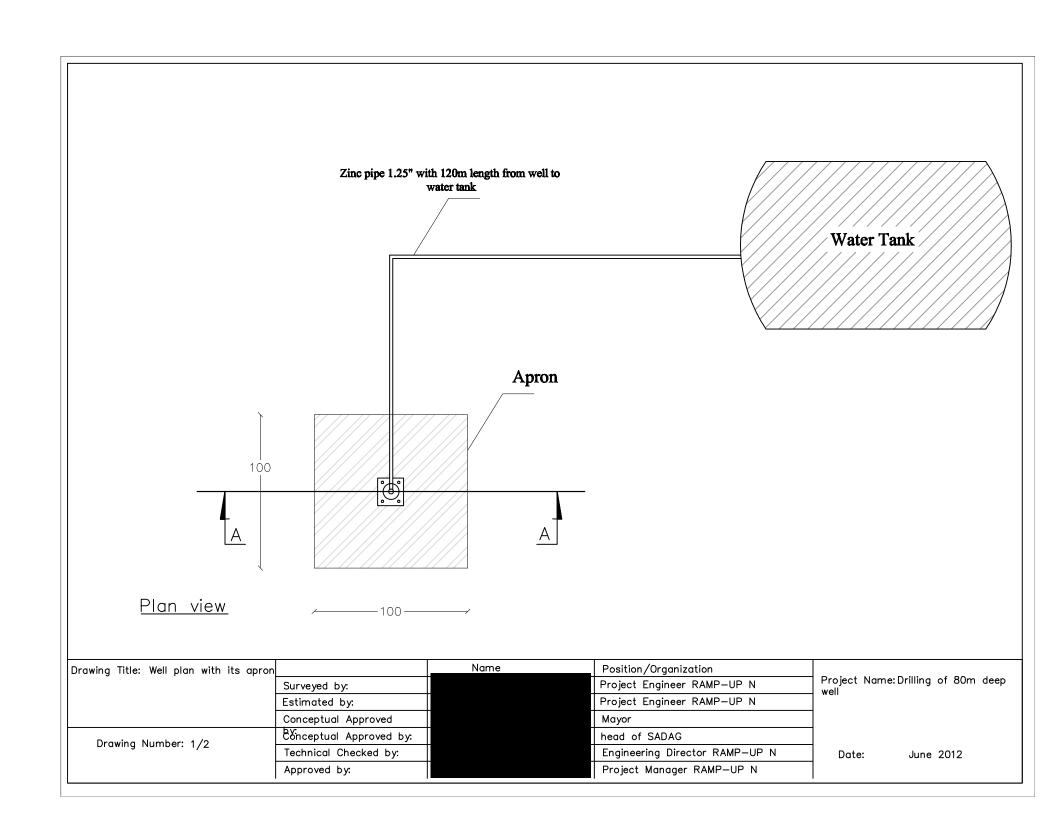
Steel bar table

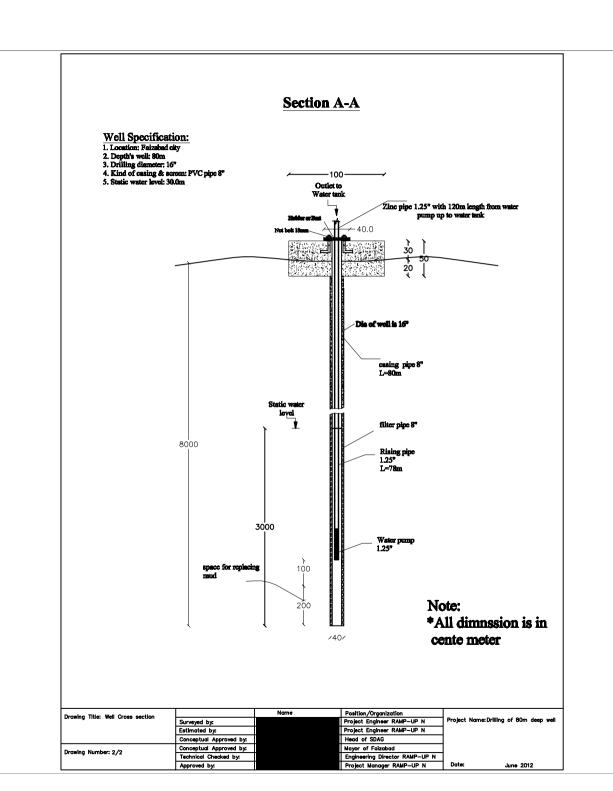
₩0	Shapes of	Marof the the in mm	e#loopf the I	bar in Kg	helength in	MTotal weight the bar in	: @% wastage Kg	Grant To- weight in
1		10	33	0.616	4.05	82.3	4.1	86.4
2		10	23	0.616	6.05	123.4	6.1	129.5
3		12	27	0.887	6.05	144.9	7.2	152.1
4		12	37	0.887	4.05	133	6.6	139.6
5		10	80	0.616	3.6	177.4	8.8	186.2
ब		12	76	0.887	3.16	213	10.6	223.6
7	l	10	15	0.616	0.5	4.8	0.2	5
8		12	38	0.887	3.10	99	5	104
9		12	38	0.887	2.20	74.1	3.7	77.8
0		12	18	0.887	3.70	59	3	62
11		12	18	0.887	3.50	55.8	2.8	58.6
12	_	10	11	0.616	5.35	36.2	1.8	38
13		10	11	0.616	5.60	38	2	40
14		10	80	0.616	5.5	271	13.6	284.6
15		12	116	0.887	3.16	325.1	16.3	341.4
16		10	112	0.616	0.5	34.5	1.7	36.2
17		12	58	0.887	2.7	139	7	146
18	1	12	58	0.887	2.10	108	5.4	113.4
19		10	14	0.616	0.95	8.2	0.4	8.6
20		10	2	0.616	0.55	0.7	0.04	0.74
╛							Wire 1mm	23Kg

Drawing Title: Septic Tank		Name	Position/Organization	
Reinforcement and Section	Survey and Estimated by:		Project Engineer RAMP UP NORTH	
	Draw by:		Engineering Intern RAMP—UP N	
	Conceptual Approved by:		Head of Faizabad SDAG	
Drawing Number: 12/12	Conceptual Approved by:		Mayor of Faizabad	
brawing Number. 12/12	Technical Checked by:		Engineering Director RAMP—UP N	
	Approved by:		Project Manager RAMP-UP N	

Project Name: Faizabad Public Latrine

Date: June 2012





APPENDIX B - PROJECT PROPOSAL

Regional Afghan Municipalities Program for Urban Populations

(RAMP UP-North)

Regional Command North

Project Proposal

Province: Badakhshan

Municipality: Faizabad

Project Number: RUN-P-FZB-002

Project Name: Public Latrine Project

Project Duration: 3 months

Estimated Project Cost: \$

Date: July 28, 2012

MGRS Coordinate of Project Area: To be inserted

GPS:

Latitude: 37 07 09.62 N

Length: 70 34 31.40 E

Supplemental information

Faizabad City has two public latrines built by other organizations during the past few years. RU N was alerted by our COR at the concept stage that both latrines were out of service. RU N put its proposal for the construction of a latrine on-hold until it could complete an investigation.

Both latrines were out of service due to a lack of water. A number of meetings took place in June between the Municipality, the Water Network Department and RU N to explore ways to put both latrines back into service. An agreement was made this month between the Municipality and the Water Network Department to supply both latrines with water supplied from water tankers. This water supply operation has been running for over two weeks and RUN N is pleased to announce both latrines are continuously in service.

RU N had initially selected a location for the new latrine that was close to the hospital however subsequent meetings with the Department of Urban Planning confirmed they planned to build a new road local to this site. The new location is in the center of the city close to the business center.

I. Problem Statement

The Faizabad Municipality has a lack of public latrines, which has caused problems for populated and public areas such as the city center or District 2 market areas. Citizens have been using open toilets, which are an issue for public sanitation and also have health concerns. Increases in the urban population in Faizabad have increased demand for public latrines as well.

During a Service Delivery Advisory Group (SDAG) meeting held on 28 December 2011, meeting participants discussed priorities for projects Faizabad and determined that the lack of public latrines is currently the highest priority. The market area, in particular, was selected as the highest priority area, as shopkeepers and market patrons currently only have access to an old one-stall toilet in the old city, far from the market in District 1. The municipality also has plans to relocate some of the shops in District 2, which is currently lacking in public latrine facilities.

II. Solution Statement

Citizens and the Municipality in Faizabad have proposed the construction of an eight-stall latrine with flushing toilets that can serve an estimated 400 people per day.

III. Beneficiaries:

The proposed location for the public latrines is in the business center, near the center of the old city, where many people come for shopping and visiting the markets. An estimated total of 400 individuals both, male and female, will benefit daily from the construction of public latrines on a daily basis. Indirect beneficiaries would include all market visitors who benefit from the increased cleanliness and improved ambience of the market as a result of the latrine construction.

IV. Scope of Work

A. Methodology

Specifications for the latrine construction, as agreed upon during the SDAG meeting, would include:

- Construction of an eight-cabin latrine, with 4 cabins for men and 4 cabins for women, with each cabin size set at 1.2m x 1.2m
- Construction of a 60 m³ septic tank, with the following dimensions: 5m long, 3m wide, and 4m deep
- Installation of a 6000 L water tank with a 6m tower

Following the construction of the latrine, the municipality will contract the operation, management and maintenance of the latrines to the private sector in a public-private partnership agreement, using Government procurement regulations and facilitated with RUN support.

B. Goods and Services Requested

A subcontractor will be selected for the construction of the public latrines, drilling of water well and the requirements for construction will be:

- Site preparation (filling, leveling, watering, and other activities as per the requirements of the site) according to the design drawings, including the demolishing and removal of the old septic tank.
- Building of the latrines, including concrete floors, reinforced concrete walls with burnt bricks, tiled floors, and walls, painted wooden doors, ceilings, roof, toilets, sinks and electrical system.

All subcontractors for RUN activities are required to hire local laborers for all unskilled labor positions. These laborers will be hired from within the community of the nearby villages and beneficiaries of RUN activities. The subcontractor shall be responsible for providing documentation of the number of both skilled and unskilled laborers and number of days worked.

C. Cost Estimation

RAMP UP NORTH - ESTIMATION

Project Name: Public Latrine

Location: Faizabad City Estimated By:Eng Bostani

Date: 07-17-2012

No.	Description	Qty	Units	Estimated Unit Cost (AFA)	Estimated Total Cost (AFA)
1	Site Preparation (Removing of booths, Leveling, filling, and watering as per site needs).	70.00	SM		
2	Excavation of foundations with all related activities according to the drawing and technical specifications.	20.00	CM		
3	Compacted Soil for floor each layer (T= 20cm) with all related activities according to the drawings and technical specifications.	5.95	СМ		
4	Base course under the PCC for sidewalk and inside latrine with all required activities (expecting non-river material).	6.46	СМ		
5	Plain Cement Concrete (PCC) M: 150 1:2:4 for sidewalks and inside the latrine with all required activities.	6.36	CM		
6	Reinforcement Cement Concrete (RCC) M:200 1:1.5:3 for footings, columns, rings, beams and slab with shuttering and steel bars of the highest quality of steel, cement (375kg per m3) clean coarse sand and crushed gravel ≤32mm mixing the aggregate, placing and forming works, curing at least for 14-18 days or in cold climates at least 28 days.	18.75	СМ		
7	Stone masonry work with cement ratio 1:5 and pointing works	20.00	СМ		

8	Bricks masonry walls, the work covered by this item shall consist of supplying and laying burnt bricks on the top of the super stone masonry. Bricks shall comply with requirements of first class bricks. The burnt bricks masonry shall be done by 1:5 ration of cement mortar.	31.02	СМ	
9	Supply and installation of one layer of moisture insulation, Esogam, best quality, in latrine floors and walls, along with all activities as required by the technical specifications.	65.48	SM	
10	Supply and installation of floor type tile T=10mm and wall type tile T=9mm, installed with 1:3 cement-sand ratio and all activities as required by the drawings and technical specifications.	124.68	SM	
11	Supply and installation of floor type Terrazzo (Mozayek) on the corridor and outside stairs T=20mm min using mortar 1:3 ratio cement/sand T=5cm with all related activities as required according to the drawings.	22.64	SM	
12	Plaster of the interior, exterior walls and ceilling with M1:4, smotlly finished with required activity.	199.39	SM	
13	Three coats of plastic painting for the interior, exterior, and ceiling walls along with all related activities.	199.39	SM	
14	Supply and installation of flat water closet complete set (Kamood), highest quality, with all related activities and technical specifications.	8.00	Set	
15	Supply and installation of sink complete set (Dastshoy) good quality for toilet with it's all related activities and technical specification	12.00	Set	
16	Supply and installation of wooden frames for doors and windows, complete with glass, painting and all related activities according to the below details.	24.00	SM	

17	Supply and installation of Interior Electrical system for the proposed building (different size conduits, different wires and cable, join box, switches, sockets, grounding, ventilator, fuse, fuse box, lights, and installing connections to the main market electrical source, along with all other items needed to complete the electrical system.	1.00	LS	
18	Supply and installation interior water supply and sewer system, including installing a connection between the building water systems the sewer system and septic tanks (all pipes and fittings for the sewer system should be class D, best quality, and also including a sand bed, caution taps, and also insulation for all pipes) along with all related activities and technical specifications.	1.00	LS	
19	Supply and installation of complete Wooden Truss 50% wooden timber (wooden timber plank =3cm, GI sheet 24 gage, gutters, glass wool) and all related activities.	54.80	SM	
20	Construction of RCC Septic tank, 60 m3 capacities, along with all required activities such as, excavation, RCC work, gate, ladders, insulation, and backfilling as needed based on the drawings and technical specifications (3*5*4m).	1.00	Ls	
21	Excavation for plumbing from water well to water storage & from Storage to Latrine including all requirements L=15m, W=60cm, D=80cm and backfilling with fine sand.	7.20	CM	
22	Drilling of 16" water well	80.00	М	
23	Lowering of 8" casing, filter pips class D kawser with all related activities including crush aggregates for backfilling of filter pips all complete.	84.00	M	
24	Construction of apron on the water well (1x1)m	1.00	LS	
25	Provision and installation of 1.25" Italian pedrolo water pump including electrical cable all complete.	1.00	No	
26	GI pipe 1 inch from the well to the water tank and latrine system with fittings all complete.	120.00	L/M	

27	Supply and Installation of overhead water tank (6000 liter capacity and steel sheet T 4 mm) with 6 meter height from the ground, GI pipe 4 inch for poles, metallic frame, painting, insulation, piping works, overflew, valve, wash pipe, foundation work: excavation PCC, RCC ring and all other related activities.	1.00	Ls					
28	Construction of Generator room as per drawing all complete	1.00	LS					
29	Provision and installation of Japanese 5kw petrol generator	1.00	LS					
30	Wooden Cupboard (size: 2.8X1.2X0.4m) with latrine goods (4 brushes, 4 brooms and 8 trash bins)	1.00	Each					
31	Branding + Opening and closing ceremony	1.00	day					
	Total Construction Cost							
		Exch. Rate:	49.0	approximately				

V. Involvement and Leadership of Municipal Staff in Project Selection, Development, Implementation & Monitoring and Evaluation

The Municipality, through the Mayor, has taken a leadership role in this project from the start by working closely with Department for Urban Development, citizens from the SDAG and with RU-N staff. The project concept has been verified by Municipal Departments, including the Service Sector, Construction Department and Cleaning Department, following the project selection by the SDAG on 28 December 2011. During the meeting, Municipal officials also worked with the SDAG to draft the proposed scope of work for this project.

On 14 March 2012, the Mayor, Municipal Officials and the RU-N team visited the site to conduct a site survey and specify the exact location of the latrines. During this visit, these participants also defined the final scope of work for the project. The RU-N team in cooperation with the Municipal construction department also developed project designs, and estimations of the project cost. The Mayor of Faizabad, Nazeer Muhammad Niazi, and Municipal Construction head, Mr. Abdul Ghani have both committed to lead municipal monitoring, evaluation, and oversight of this project along with the SDAG monitoring committee.

VI. Level of Public Participation

The SDAG held a meeting on 28 December 2011, with 28 members of civil society (23 men and 5 women) attending. All members jointly identified the Public Latrine project as a priority need of the community. At the meeting participants drafted a Service Improvement Plan and discussed plans for the sustainability of the project.

On 11 January 2012, a meeting was organized with the Project Beneficiary Group (PBG) in which total 6 participants, all male, decided to establish a monitoring committee for the project.

On 2 February 2012, the Business Kalanters organized a meeting with 11 participants, all men, and they discussed the project concept and proposal.

On 6 March 2012, the SDAG met to establish the Procurement/Transparency, Communication and Survey Committees. Committee members pledged to play an active role in the implementation of the projects. SDAG members have committed to monitoring the construction of the latrines during the initial phase of the project, as well as the operation of the latrines and revenue collection of latrine fees once the latrines have become operational.

VII. Activity Objectives

The objectives of the project are to:

- Improve the patron environment and sanitation conditions of the market area, a key responsibility for municipal service delivery, through the provision of high-quality and clean public latrines.
- Improve communication and relationships between the Mayor/Municipal officials and citizens.
- Improve participation from citizens in decision-making processes related to the planning, design, implementation, and monitoring of municipal services such as public latrines.
- Improve the public's perception of the Municipality's ability to deliver sustainable services.
- Increase revenue generation and the sustainability of municipal service delivery.

VIII. Sustainability and Maintenance:

RU-N will implement the following activities during the initial 3 months:

Construction of an eight-cabin latrine, with 4 cabins for men and 4 cabins for women, including a 60 m³ septic tank, 6000 L water tank with a 6m tower.

Apart from the above-mentioned activities, RU-N will provide technical support for quality assurance of project activities and supervision/monitoring of project, including capacity building of municipal staff and elements of revenue enhancement.

Municipality and Citizens Contribution (Initial 3 months):

The municipality will provide two (2) 200-liter capacity trash bins within the market area to better manage trash. Citizens, along with appropriate municipal officials, will also monitor the project during implementation of the project.

Shop owners in the market area have stated that it is in their interest to ensure that the latrines are well maintained, and promised to start a committee that will monitor the cleanliness of the latrines and report back to municipal officials on the conditions that they find.

The Municipality agrees that prior to the start of the RU-N construction phase, they will finalize the terms for a public-private partnership for the latrine operation, maintenance and revenue collection. The municipality also agreed to work with RU-N on the terms of the public-private partnership.

Municipality and Citizens Contribution (after initial 3 months):

The maintenance of the Public Latrine Project is an essential issue for the Faizabad Municipality and the SDAG. Both consider the contract of the maintenance, operation and revenue collection for the latrine to the private sector as a critical part of sustainability. Contracting the operation of the latrine to the private sector will also provide a regular source of revenue to the municipality, as well as quality service to citizens. The partnership will also increase the transparency of the revenue available to the municipality.

The municipality will require the contractor to hire staff for the maintenance of the latrine, and the contractor will pay the wages of these staff from the revenue from the latrine user fees. The municipality will also specify maintenance and hygiene standards of the latrines as part of the public-private partnership agreement. Monitoring of the cleanliness and sanitation of the latrines will be conducted by the Municipal Cleaning and Greening Department, on a spot check basis as determined by the municipality.

Estimated Salary of Staff/ Maintenance Cost of Latrine:

Item	Quantity	Unit	Overtime/Month	Total Cost/Month	Annual total
		Cost/Month			salary
Cashier/cleaner (male)	1	100 USD		100 USD	1,200 USD
Cashier/cleaner (female)	1	100 USD		100 USD	1,200 USD
Maintenance cost/supply	LS	100 USD		100 USD	1,200 USD
Black water removal	1	200 USD		200 USD	24000 USD
Electricity and Generator fuel	LS	100 USD		100 USD	1200 USD
Contractor income		200 USD		200 USD	2400 USD
Total				800 USD	9600 USD

Potential revenues from the latrine have been estimated based on the established user fees and estimated usage rates, along with estimated operations costs (cleaning and cashier staff and maintenance costs) along with a reasonable contractor profit margin. The user fee will be set by the municipality, based on the advice of the SDAG about a reasonable rate, at 5 Afghani (US\$.10), and the SDAG has also estimated that an average of 400 people will use the public latrines per day.

The chart below shows the estimated daily/monthly/yearly revenue from the operation of the public latrines.

Quantity	Unit Cost	Daily Revenue	Monthly Revenue	Annual Revenue
400	0.1 USD	40	1200 USD	14,400 USD
Total			1200 USD	14,400 USD

SUSTAINABILITY ANALYSIS

FOR

PUBLIC LATRINE AT FAIZABAD CITY BADAKHSHAN PROVINCE

MONTHLY INCOME						
No. of users daily Rate per user (US\$) Total income daily Total income Monthly						
400.00	\$0.10	\$40.00	\$1,200.00			

Description	Unit	Quantity (Daily)	Quantity (month)		Unit cost	Total
Black water removal	LS			1.00	\$200.00	\$200.00
Cashier/Cleaner (man)	Person			1.00	\$100.00	\$100.00
Cashier/Cleaner (woman)	Person			1.00	\$100.00	\$100.00
Maintenance Cost	LS			1.00	\$100.00	\$100.00
Electricity and Generator fuel	LS			1.00	\$100.00	\$100.00
Contractor income				1.00	\$200.00	\$200.00
Total				_		\$800.00

PROFITABILITY ANALYSIS					
Monthly Income	Monthly Expenses		Monthly profit		
\$1,200.00	\$800.00		\$400.00		

IX. Revenue Enhancement

Based on the estimations of the operation costs and regular revenue from the public latrines, a contractor would be able to make a profit from the operation of the latrines. Given estimations of the contractor's operating costs, including a reasonable profit for the contractor, the Municipality can charge up to \$1200 from the contractor on an annual basis for the operation of the latrine, which will increase municipal revenue.

X. Capacity Development

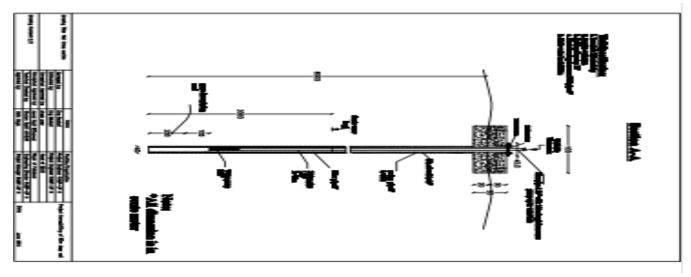
The project also includes capacity building of municipal officials and citizens representatives at different stages. Capacity development focused/will focus on the topics below:

- I. Project selection
- II. Project development
- III. Project procurement
- IV. Project implementation
- V. Project monitoring
- VI. Opportunity for Public-private partnerships

VII. Unique Aspects of Project

The public latrines are a project that can improve the business community and environment in Faizabad. Shop owners will be a direct beneficiary of the project, as they will have access to improved sanitation facilities. The improved environment and ambience of the market may potentially increase the willingness of customers to shop in the market area, increasing revenues for business owners. In addition, the organization of a committee of shopkeepers to monitor the toilet can strengthen the organization and management structures for the market.

Once the latrines have been constructed, Faizabad Municipality with assistance from RU N will also have the opportunity to develop a public-private partnership (PPP) and strengthen their capacity to cooperate with the private sector to provide public services.



Photoes

Photos below display exact location of the Field for the Public Latrine project









